

19980919.qrp v01_n219.qrs.980919

Date: Sat, 19 Sep 1998 19:03:11 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 1219

QRP-L Digest 1219

Topics covered in this issue include:

- 1) [20480] Re: QSL Program
by Fred Chen <fred@asl-labs.bc.ca>
- 2) [20481] Antenna Rx Noise Bridges(regarding and VHF USE)
by "E. Andrews" <earlve3ab@igs.net>
- 3) [20482] Need Sources for used Signal Generator and Step Attenuators
by Bob Painter <turnkey@exo.com>
- 4) [20483] CA3160 info ... thanks
by Jim Lyons <jlyons@cam.org>
- 5) [20484] RS Items correspondence
by ka7you@juno.com
- 6) [20485] Egg on my face
by ka7you@juno.com
- 7) [20486] Re: Am audio
by w4bws@juno.com (Donald E Sanders)
- 8) [20487] Re: RS HTX 204 dual band
by w4bws@juno.com (Donald E Sanders)
- 9) [20488] Re: Computer Osc. package
by w4bws@juno.com (Donald E Sanders)
- 10) [20489] Ten-Tec 1340 Question
by Kelly Ellison {WB0WQS} <kelman@dialnet.net>
- 11) [20490] QRP SSB freq?
by Joe Everhart <n2cx@voicenet.com>
- 12) [20491] Pacificon '98 - Sheraton room availability info
by Bob Painter <turnkey@exo.com>
- 13) [20492] suppressed carrier FM
by Fran Flynn <fflynn@together.net>
- 14) [20493] Re: My lazy Fox story
by Tim Ahrens <tahrens@inetport.com>
- 15) [20494] RF Losses
by "rohre" <rohre@arlut.utexas.edu>
- 16) [20495] Re: suppressed carrier FM
by Chris Trask <ctrask@primenet.com>
- 17) [20496] RE: DC MOTORS
by Cayman71@aol.com
- 18) [20497] RE: Computer clock oscillator AS IS !
by "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
- 19) [20498] Re: QRP SSB freq?

by "Joe <HS2JFW>" <pornchai@daisy.bu.ac.th>
20) [20499] FOX
by Fran Flynn <fflynn@together.net>
21) [20500] F/S QRP Gear
by SABorns@aol.com
22) [20501] HW-8 Bandpass filter info. needed.
by rsorge@phoenix.net
23) [20502] Re: Am audio - REALLY
by "Randy Jouett" <nop@swbell.net>
24) [20503] Re: QRP SSB freq?
by RangerSF5@aol.com
25) [20504] 10 Mtr AM Repeater
by "Randy Jouett" <nop@swbell.net>
26) [20505] Re: RF Losses
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
27) [20506] QRP FD Question
by Pete Meier <pmeier@tir.com>
28) [20507] Send a card to Bruce, W6TOY
by Paulette Quick <wb9vhf@globaldialog.com>
29) [20508] Re: QRP SSB freq?
by "Mike Martin" <mmartin@internetni.com>
30) [20509] Vertical Dipoles and Ground Planes
by "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
31) [20510] Mommy, what's a reflector?
by nhoop@centuryinter.net (N H)
32) [20511] Re: QRP SSB freq?
by Richard Brittingham <rbritt@visi.net>
33) [20512] Solar Stuff for QRP AFIELD
by Paul Harden <pharden@aoc.nrao.edu>
34) [20513] Re: Mommy, what's a reflector?
by KC5TJA <kc5tja@axisinternet.com>
35) [20514] Quick HELP!
by Jeff Grudin <grudin@pacific.vdbs.com>
36) [20515] suppressed carrier FM
by Fran Flynn <fflynn@together.net>
37) [20516] GHD Keys
by Lee Hopper <leehop@uswest.net>
38) [20517] Got the Sprint info Thanks
by Jeff Grudin <grudin@pacific.vdbs.com>
39) [20518] Re: suppressed carrier FM
by David Feldman <dgf@netcom.com>
40) [20519] Re: suppressed carrier FM
by "Peter Hardie" <hardie@shaw.wave.ca>
41) [20520] FS: Misc stuff
by Bob Hightower <ki7mn@dancris.com>
42) [20521] Re: Am audio
by "Randy Jouett" <nop@swbell.net>
43) [20522] Re: Am audio

by "Peter Hardie" <hardie@shaw.wave.ca>
44) [20523] Need help with tuning new rig.
by "Keith Martin" <martins@ccosmo.net>
45) [20524] Re: Teaching theory to kids??
by kf2ew@juno.com (David M Kopacki, Sr.)
46) [20525] Re: BC-906 freq meter, long
by Stephen Lee <slee@u.washington.edu>
47) [20526] Re: Mommy, what's a reflector?
by nhoop@centuryinter.net (N H)
48) [20527] Re: B&W's apartment/travel antenna (?)
by David Feldman <dgif@netcom.com>
49) [20528] Re: FS: Misc stuff
by Bob Hightower <ki7mn@dancris.com>
50) [20529] GOLDMINE FORTHCOMING:
by k6hcj@juno.com (Marv Fagenson)
51) [20530] QRP Afield kickin' along...
by Joe Gervais <vole@primenet.com>

Date: Fri, 18 Sep 1998 15:37:49 -0700 (PDT)
From: Fred Chen <fred@asl-labs.bc.ca>
To: Roger Hightower <n7kt@earthlink.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20480] Re: QSL Program
Message-ID: <Pine.D-G.4.02.9809181536210.25151-1000000@asl7>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 18 Sep 1998, Roger Hightower wrote:

> I've been using Microsoft Publisher to generate QSL cards, and while it
> does a very good job, it's really "labor intensive". Not much fun for
> just whipping a few cards out for casual contacts.
>
> Soooo, I tried this one. Neat! It's fairly easy to figure out, and
> with a minimum of effort you can have good cards, semi-customized for
> any occasion....just use the extra areas set aside for that.
>
> Nice going, John. This is a nifty little utility program.

I've been casually looking for a QSL program and have used Adobe
Photoshop, various word processors, etc. to do QSL cards. Could I get
some more background on the one you tried? Thanks.

Fred, VE7LNX

Date: Fri, 18 Sep 98 18:49:47 PDT
From: "E. Andrews" <earlve3ab@igs.net>
To: Qrp-1@Lehigh.EDU
Subject: [20481] Antenna Rx Noise Bridges(regarding and VHF USE)
Message-ID: <MAPI.Id.0016.0061726c766533613030303930303039@MAPI.to.RFC822>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"; X-MAPIextension=".TXT"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I just bought an MFJ Ant Noise Bridge second hand..will use it to supplement my RF1 ant analyst. My RF1 will only go up to abt 34 Mhz..I have 6 and 2 mtr ssb gear and wonder if the noise bridge generates enough VHF Rf to be useful up in this range? My unit came with no manual. I suspect it could be useful to tune up antennas and coax lengths etc in that range but maybe I could use some tips or actual experiences because ant season is soon here and ive got a couple of homebrew Quad type ants for 10m 6m and 2m. On 2 i had great luck at my last QTH with a 4 element Quad with round elements that I made using dowels coated with epoxy. I used it on FD and when I lowered the mast it was on and it got away from me a bit ..you can guess the rest...anyways..i now have some fiberglass fishing rod type spreader arms...73 earl ve3ab

Date: Fri, 18 Sep 1998 17:16:10 -0700
From: Bob Painter <turnkey@exo.com>
To: qrp-1@Lehigh.EDU
Subject: [20482] Need Sources for used Signal Generator and Step Attenuators
Message-ID: <1998091900005.RAA25242@ns1.snni.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang,
Would like to consider buying the following surplus test gear:

HP 8654 Signal Generator - or equivalent

HP 355 Step Attenuator - or equivalent

Would like names of dealers/brokers that might carry this type of thing. Also, interested in what price range these items might be in.

I know that the brand new gear costs more than I want to spend, but hope the above items might be more affordable.

Thanks

-72- de Bob Painter, KF6NKH - Yorba Linda, CA

Date: Fri, 18 Sep 1998 20:11:24 -0400
From: Jim Lyons <jlyons@cam.org>
To: qrp-l@Lehigh.EDU
Subject: [20483] CA3160 info ... thanks
Message-ID: <3.0.5.32.19980918201124.007da6b0@pop.hip.cam.org>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Thanks to everyone who sent helpful suggestions for a source of CA3160's.

Several suggested Dans's Small Parts but, alas, Dan has a \$50 US minimum plus \$20 US mailing on the first \$100 for Canadians.

Two kind members offered to send me one and I am accepting one of those offers.

As a substitute the TLC271 was suggested as a possibility and, once I get the original working I may give that a try and report on the results.

QRPers lived up to their reputation as the most helpful of Hams.

Thanks again.

Jim Lyons, VE2KN

Date: Fri, 18 Sep 1998 20:33:59 EDT
From: ka7you@juno.com

To: QRP-L@Lehigh.EDU
Subject: [20484] RS Items correspondence
Message-ID: <19980918.164706.6831.1.KA7YOU@juno.com>

I just received this note from a RS Answer Man:

"Lotsa luck locating most of the disco'd stuff! I'm one of the guys giving answers when you've got questions. Much of the stuff is out of stock; some I have been scouring the country for since January....like the dual bander...the freq counter.....among other things. Good luck.....Mike"

I guess it is true about the saying;
"If it sounds too good to be true, it probably is".

This is my last post on the subject.

Rod Johnson KA7YOU from CN97ak near Issaquah, Wa. 160M thru 1296 MHz
(3456MHz still in the wings)

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Date: Fri, 18 Sep 1998 20:33:59 EDT
From: ka7you@juno.com
To: QRP-L@Lehigh.EDU
Subject: [20485] Egg on my face
Message-ID: <19980918.164706.6831.2.KA7YOU@juno.com>

I said the previous post would be my last on the RS discontinued items, but I had to clear up my mistake, and I messed up big time folks! I misread the RS 'disco' list(apparently several times), and skipped a line, so the Dual band HT was \$139.97 instead of the \$69 that I had quoted.

My appologies for the bandwidth.

Rod Johnson KA7YOU from CN97ak near Issaquah, Wa. 160M thru 1296 MHz
(3456MHz still in the wings)

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 18 Sep 1998 20:52:54 -0400
From: w4bws@juno.com (Donald E Sanders)
To: marsgal42@hotmail.com
Cc: qrp-1@Lehigh.EDU
Subject: [20486] Re: Am audio
Message-ID: <19980918.205758.9350.4.W4BWS@juno.com>

Just feed rf and audio to a balanced modulator IC
and you have simple DSB. No expensive and hard
to match filters. There were lots of DSB signals on back in the late 50's
and into the 60's. Didn't break your wallet and you could flip to upper
sideband on 80 and 40 with little interference.

Donald E. Sanders W4BWS
694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

On Fri, 18 Sep 1998 13:50:13 PDT "laura halliday" <marsgal42@hotmail.com>
writes:

>nor is there anything preventing us from using DSB.
>The latter is trivial to generate, simple to demodulate
>properly (e.g. squaring loop), and when demodulated pro-
>perly has power advantages over SSB.

>
>Laura Halliday VE7LDH/3 "Que les nuages soient notre
>Grid: FN03gs pied a terre..."
> - Hospital/Shafte
>
>

>-----
>Get Your Private, Free Email at <http://www.hotmail.com>
>
>

You don't need to buy Internet access to use free Internet e-mail.
Get completely free e-mail from Juno at <http://www.juno.com>
Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 18 Sep 1998 20:38:39 -0400
From: w4bws@juno.com (Donald E Sanders)
To: mikemo@ibm.net
Cc: qrp-1@Lehigh.EDU
Subject: [20487] Re: RS HTX 204 dual band
Message-ID: <19980918.205758.9350.2.W4BWS@juno.com>

If I didn't have any I'd sell you one for \$50.00.
Donald E. Sanders W4BWS
694 E. Eau Gallie Blvd. Satellite Beach, Fl 32937
407-779-0222 Fax 407-779-0830
E-mail to w4bws@juno.com
My favorite QRP rig glows in the dark

On Fri, 18 Sep 1998 13:25:22 -0400 Michael Maiorana <mikemo@ibm.net>
writes:
>Tim Billingsley wrote:
>>
>> The HTX 204 dual band HT is at \$50.
>
>I think that one is a typo. There are none of these radios anywhere
>near
>me. They were closed out in March of this year. The price, if you find
>one, according to all the RS folks I talked to is \$139.97. Not \$50,
>but
>still quite a bargain. BTW, I did ask a lot of questions and no one
>was
>aware of the lower price (it does seem a bit "too good to be true").
>--
>72 de ku4qo
>Mike Maiorana
>Palm Harbor, FL
>
>

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Date: Fri, 18 Sep 1998 20:45:36 -0400
From: w4bws@juno.com (Donald E Sanders)
To: mikemo@ibm.net
Cc: qrp-1@Lehigh.EDU
Subject: [20488] Re: Computer Osc. package

Message-ID: <19980918.205758.9350.3.W4BWS@juno.com>

Oh boy, just hook that square wave tapped up on a parallel LC circuit feeding a 1/2 wave 160 antenna and watch the harmonics fly.

Donald E. Sanders W4BWS

E-mail to w4bws@juno.com

My favorite QRP rig glows in the dark

On Fri, 18 Sep 1998 15:18:20 -0400 Michael Maiorana <mikemo@ibm.net> writes:

>Peter C. Wotherspoon wrote:

>> I'm looking at a 4 pin package from a computer board. 1.8432 Mhz
>

>The following is assuming the part is a standard TTL oscillator.

Probably a nice square wave around 4 volts peak to peak. >--

>72 de ku4qo

>Mike Maiorana

>Palm Harbor, FL

>

>

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Or call Juno at (800) 654-JUNO [654-5866]

Date: Fri, 18 Sep 1998 20:23:16 -0500
From: Kelly Ellison {WB0WQS} <kelman@dialnet.net>
To: qrp-l@Lehigh.EDU
Subject: [20489] Ten-Tec 1340 Question
Message-ID: <36030784.DA52813A@dialnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi all,

Just picked up a 1340 off the list. I ordered a manual, but in the mean time, could someone tell me how to adjust the Side tone? This one is set for a very high tone.
Thank you,

Kelly Ellison

WB0WQS
Aurora, MO

Date: Fri, 18 Sep 1998 21:25:01 -0400
From: Joe Everhart <n2cx@voicenet.com>
To: qrp-1@Lehigh.EDU
Cc: njqrp@njqrp.org
Subject: [20490] QRP SSB freq?
Message-ID: <199809190125.VAA08412@nss4.cc.Lehigh.EDU>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

OK all you QRP SSB ops...

What is the conventional QRP SSB frequency on 20 meters?

I checked Bob Hightower's page and he lists 14.285, however
W2DP, who certainly operates more SSB than I do, recommends 14.260.

What is the consensus? As previously announced, WQ2RP is gonna
operate at the SJRA hamfest tomorrow and we wanna operate where
somebody's gonna be listening.

72/73,

Joe E., N2CX

from South Jersey y'all!

Date: Fri, 18 Sep 1998 19:11:04 -0700
From: Bob Painter <turnkey@exo.com>
To: qrp-1@Lehigh.EDU
Subject: [20491] Pacificon '98 - Sheraton room availability info
Message-ID: <199809190200.TAA29412@ns1.snni.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang,

As of 6:53 pm Pacific time 9/18, here is the room situation at
the Sheraton:

Thursday night: block of 50 rooms, 24 are left
Friday night block of 141 rooms, 22 are left
Saturday night: block of 149 rooms, 33 are left

Call the hotel directly at (925) 825-7700 because the
800 number already thinks that Thursday night is sold out.

Hope to see you there!

-72- de Bob Painter, KF6NKH - Yorba Linda, CA

Date: Fri, 18 Sep 1998 22:01:19 -0400 (EDT)
From: Fran Flynn <fflynn@together.net>
To: qrp-1@Lehigh.EDU
Subject: [20492] suppressed carrier FM
Message-ID: <199809190201.WAA24534@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>> What do you get when you suppress the
>> carrier of FM -
>>

Interesting concept, but how would you go about filtering on the transmit side
and demodulating the signal? Not to say it can't be done, I just wouldn't know
how.

In other words, how do you separate the carrier when the carrier frequency
deviation is what is used to demodulate the signal in the receiver?

Maybe you have a valid idea here, since (it would seem to me) although the
carrier is removed, there are still sidebands. It seems to me also that the
transmitted signal would still require the same bandwidth. But, there might be
an energy advantage, seeing that with no modulation there would be no
sidebands and
therefore no transmitted signal. Maybe this is something to think about.
The
demodulator would be rather complex, though, I imagine.

It's something to wonder about.

On the other hand, it might help clean up some repeaters. :)

72 de Fran, KM1Z

Date: Fri, 18 Sep 1998 21:29:38 -0500
From: Tim Ahrens <tahrens@inetport.com>
To: ka8okh@som-uky.campus.mci.net, qrp-1@Lehigh.EDU
Subject: [20493] Re: My lazy Fox story
Message-ID: <36031712.17078F57@inetport.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hey Rich - I'm gonna sit this one out!! See if the cycle helps
out on 40.. like all records, they are made to be broken!! good luck
to all the Foxes this year!

Figure the only way to get the most foxes is to not be one! hehe
(just kidding).

Question: Any foxes in on the K2 beta program??? That would be a
good test!!

cuall

Tim W5FN

Rich Dailey, KA8OKH wrote:

> Now to see how qualifying comes out. Does W5FN get in
> on a past champion's provisional?
>

> Did I say that right, Tim?
>

Date: 18 Sep 1998 21:50:40 -0500
From: "rohre" <rohre@arlut.utexas.edu>
To: qrp-1@Lehigh.EDU
Subject: [20494] RF Losses
Message-ID: <n1305966991.50248@msmailgw1.arlut.utexas.edu>

Interesting comments are coming in both via the list and privately about RF suitability of materials.

A general word of comment: Any material you are adapting from one application to another will need to be tested for suitability. Not all plastic pipe may be suitable for RF uses in coil forms, traps, or antenna insulators, but testing can be done to evaluate effects on Q, resistive loss, etc.

There are far too many variants to dismiss a class of material if one has misapplied one member of that class. At one time, there were few plastics, and few classes. The requirements of various applications have driven the lists of formulations far too large to place in the general reference handbooks, and I found one tome on plastics to rival the thickness of the call books and ARRL handbooks put together.

Some wires have combinations of plastic insulations. I have found a nylon formulation that appears to have a clear plastic over the colored insulation. Teflon aircraft wiring is often jacketed, as are fiberglass insulations, with another coating.

Incidentally, in my aviation work I am seeing a lot of discussion of the various aircraft wiring insulations, and the fact that Kapton, which was a plastic prized for its high temperature rating, (so much so that in the 70's it was used for archival magnetic tape base material to withstand fires), has been found with aging and flexure, to minutely crack and then when arced to burn explosively. They may well have to rewire certain of the aircraft that had this insulation, like the L1011 and even the newer MD-11 involved in the recent tragedy. I mention this, for longer term character of a material might be important to your application.

Much like the softer aluminum alloys not standing up as beam antenna material, or work hardening a metal to failure; anything may change in properties over time in certain environments.

Also, performance under long term outdoor sunlight exposure, temperature

fluctuation, wind loading, etc. can deteriorate materials.

For most home built amateur antennas, that are soon replaced with another new design, many readily available low cost materials could be substituted for purpose built antenna materials. For indoor projects and low power many things might work perfectly well. Smooth plastic pipe couplings can substitute for ceramic beehive insulators to support a coil form, etc. Many standoffs being sold to support boards in cabinets and chassis are now plastic materials. What are their effect on the RF quality of the project? Testing can answer what the catalog listing does not.

However, your test must be valid. A solid material must be tested if that is what you are going to use. A flexible material might test differently. It has also been pointed out that wall thicknesses in variations of pipe can be an issue to fits, when combining fittings.

That also brings up a point about having not too thin a material, such that minute voids are a source of breakdowns. Not usually a problem with QRP levels of voltage.

Across 50 ohm antenna feed you would only develop under 16 volts at 5 watts. (Even at 100 watts you only have around 70 volts). Of course, the high impedance ends of dipoles are higher; that is left as an exercise to the reader :-) (always wanted to say that)!

Baluns, according to the acknowledged authority, J. Sevic, can have high efficiencies when correctly designed and applied. If an air wound or cored balun got hot enough to melt the insulation, I would look for a severe mismatch beyond the design of that particular device.

Much flexible wire has colored insulations, and that may be a factor and bears examination. Additives are required to obtain colors. Dyes may have metal salts in them . Of course, you would have to strip the wire core from the insulation and only test the insulation in your RF test set up.

The resistivity of PVC seems high enough, when compared to teflon from some handbook values sent to me. It should serve well for most ham radio applications needing a good insulator.

But that reminds me of a failure picture story about teflon forms for beam traps that appeared in QST, sometime in the 60's I believe. The teflon forms burned after breaking down. Supposedly, the beam was being used only at legal amateur limits. Teflon is one of the best high voltage RF insulators in most applications. This breakdown surely was a misapplication of design, creating higher than normal losses in the trap or perhaps contamination of the plastic happened.

Even the best ceramic door knob insulators on power lines sizzle with

breakdown when dry weather allows a conductive dust coating to build up. We hear that as power line noise in our receivers. In that case, a temporary condition has rendered a usually good RF dielectric unable to prevent QRM to our set.

Its great to innovate and find new uses for materials. Understanding what the failure issues might be is key to success with the innovation. And some testing might be in order rather than reliance on old wives tales that go around the hobby.

Have you heard the one about don't store your standby Lead Acid battery on the concrete of your garage floor? Many service station old timers believed concrete would somehow discharge the battery. The fact the batteries were in rubber cases did not seem to matter. (What did happen, was the cold temperature of a concrete garage floor lessened the available charge). Other issues might also have been at work, sulphation from not being used, or stations often trickle charged their new batteries before sale; and in use, some batteries evaporated conductive salts out onto the case.

When you are building your next project or troubleshooting the next failure around the shack, I hope I have caused your thinking caps to give you more options.

72, Stuart K5KVH

Date: Fri, 18 Sep 1998 20:04:02 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: Fran Flynn <fflynn@together.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [20495] Re: suppressed carrier FM
Message-ID: <Pine.BSI.3.96.980918200318.17364A-100000@usr09.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 18 Sep 1998, Fran Flynn wrote:

> >> What do you get when you suppress the
> >> carrier of FM -
> >>

Absolutely no output.

/,-----.
/ What's all this \

Circuit Design for the
RF Impaired

Chris Trask / N7ZWY
Principal Engineer
ATG Design Services
P.O. Box 25240
Tempe, Arizona 85285-5240

Technical Editor,
QRP Quarterly
QRP ARCI 9464

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Date: Fri, 18 Sep 1998 23:16:58 EDT
From: Cayman71@aol.com
To: qrp-l@Lehigh.EDU
Subject: [20496] RE: DC MOTORS
Message-ID: <6fff9360.3603222a@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

These faster motors really benefit from gear-reduction drives such as those made by Jackson Brothers. They are very tough to find & usually expensive. Surplus Sales of Nebraska carries these.

Good Luck & have fun!

KA8SYV - ..- . . .

Date: Fri, 18 Sep 1998 23:42:48 -0300
From: "Prof. Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-1@Lehigh.EDU>
Subject: [20497] RE: Computer clock oscillator AS IS !
Message-ID: <01bde377\$30115ea0\$07199e03@inforhc>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Very good posting about computer clock oscillators !
especially the little known fact that THEY ARE NOT 50 ohm
devices !!!

One further comment.... AS IS... a computer clock oscillator
is a beautiful local oscillator for a DIODE RING MIXER...

No need for LOW PASS filters.. just feed the square wave
to the diodes... they love it !

But... be careful, you want the correct drive according to the
type of diodes used in the DBM (double balanced mixer) for
example... so you must adjust the output level... very easily
done

with a resistive pad.. again... 400 ohms on one side, and the
correct input impedance of the DBM (usually 50 ohms) on the
other.. you calculate so the level drives the diodes to
saturation.

Have a nice 6 meter converter that works that way and I think
it is the lowest cost 50 MHz receiving converter available...
It has just a bandpass filter.... the DBM and the computer clock
module working at 40 MHz... output is at 10 MHz into standard
HF receiver..... and as regards to stability... with 5 volts
regulated from 7805 device, I can receive SSB very well without
drift... i.e. no need to be retuning.

Will submit article to one of the magazines soon, now that
6 meters is getting a lot better (Trans Equatorial Propagation
almost every day now HERE and up to the SE USA too.

Comments invited

Your friend in Havana

Arnie Coro

C02KK

e-mail: arnie@radiohc.org
e-mail inforhc@mail.infocom.etecsa.cu
Phone: 53 -7 - 814243

Date: Sat, 19 Sep 1998 11:16:00 +0700
From: "Joe <HS2JFW>" <pornchai@daisy.bu.ac.th>
To: "qrpl" <qrp-1@Lehigh.EDU>, <n2cx@voicenet.com>
Subject: [20498] Re: QRP SSB freq?
Message-ID: <019701bde384\$39ad7860\$b8e794cb@hs2jfw.bu.ac.th>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

I saw in frequency information about QRP SSB frequency.
That locate on 14.285 MHz on 20M and 21.385 on MHz on 15M.
About 14.260 MHz around asia is the DX frequency. Most of BIG GUN often
on this frequency. So, most of SSB QRP not very often call CQ cause those
other
station don't need to reply to weak signal station as you know.
73 Joe

Pornchai Semjang ,Joe QRP-L #938
HS2JFW , N3YGP QRP-HS#1
Bangkok University
semjang@lily.bu.ac.th
pornchai@daisy.bu.ac.th
HomePage "http://www.qsl.net/~hs2jfw"
Callbook Thailand "http://hs2jfw.ml.org"

-----Original Message-----

From: Joe Everhart <n2cx@voicenet.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Date: 19 2541 23:23
Subject: QRP SSB freq?

>OK all you QRP SSB ops...

>

>What is the conventional QRP SSB frequency on 20 meters?
>
>I checked Bob Hightower's page and he lists 14.285, however
>W2DP, who certainly operates more SSB than I do, recommends 14.260.
>
>What is the consensus? As previously announced, WQ2RP is gonna
>operate at the SJRA hamfest tomorrow and we wanna operate where
>somebody's gonna be listening.
>
>72/73,
>
>Joe E., N2CX
>
>from South Jersey y'all!
>
>

Date: Sat, 19 Sep 1998 00:34:44 -0400 (EDT)
From: Fran Flynn <fflynn@together.net>
To: wb5rue@stic.net, QRP-L@Lehigh.EDU
Subject: [20499] FOX
Message-ID: <199809190434.AAA07701@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Date: Fri, 18 Sep 1998 16:35:36 -0500
From: "Kevin Muenzler WB5RUE" <wb5rue@stic.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [20474] Fox season
Message-ID: <19980918213538220.AAA208@muenzlerk>

>
>I know I already asked this and some answered....
>Hard disk crash....

>When does Fox Season start? and
>What are the rules?

>thanks

I looked briefly through the archives and it looks like Oct 7

Date: Sat, 19 Sep 1998 00:34:36 EDT
From: SABorns@aol.com
To: qrp-1@lehigh.edu
Subject: [20500] F/S QRP Gear
Message-ID: <2463173.3603345c@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

It's time to reduce the volume of QRP gear in the shack. The following items are for sale with all prices including shipping in CONUS.

W9GR DSP I \$65.00
Norcal 38S with Rainbow Tuner \$60.00
Oak Hills Spirit 20m with KC-1 keyer/freq counter \$125.00
Oak Hills Spirit II 80m inc. keyer \$100.00
Hands GQ-40 40m \$125.00

All gear in excellent shape with manuals.

73, Steve K8IDN (Columbus, Ohio)

Date: Sat, 19 Sep 98 00:15:33 PDT
From: rsorge@phoenix.net
To: qrp-1@Lehigh.EDU
Subject: [20501] HW-8 Bandpass filter info. needed.
Message-ID: <Chameleon.980919003347.rsorge@phoenix.net.phoenix.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

With the post on using the MFJ-259b to check lowpass filters on popular QRP rigs and optimizing these circuits, I am interested in using this technique on the Heathkit HW-8. The final amplifier output circuit in the HW-8 is different than the lowpass filters that are seen in the SW-40+, etc. Can someone explain the difference and the way to check these. Also the torroids for 80 meters have very high values on the schematic. Ex. L-26 15.5uH and L-27 27.5uH. How do you winnd torroids for these high values? My charts show values like 2.434uH and 3.012uH

for 80 meterslow pass filter. Can someone head me in the right direction?
Thanks,
72 de Bob

Name: Robert H. Sorge
E-mail: rsorge@phoenix.net
Date: 9/19/98
Time: 12:15:33 AM

This message was sent by Chameleon

Date: Fri, 18 Sep 1998 19:23:21 -0500
From: "Randy Jouett" <nop@swbell.net>
To: <kaliic@ime.net>
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [20502] Re: Am audio - REALLY
Message-ID: <006f01bde38f\$5df6dd50\$210aa8c0@aldebran>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>Nice try Randy,
>
>But a couple of times I've seen these things turning... chasing flies,
>kicking tires and discussing the state of the union... any way
>
>73
>Vince
>kaliic

Well, all I can say is this: my rotor-mounted vertical worked :^). I think a lot of it had to do with the fact that the rotor was frozen. You couldn't even budge the thing using a max-leverage monkey wrench :^).

Here's something for ya....Hurricane Andrew took out massive amounts of trees in the yard (some of them big, huge live oaks), yet the rust-city rotor-mounted vertical remained. Guess it didn't have have all that much of a wind-load on it or something :^).

Randy AB5NI

nop@swbell.net

Date: Sat, 19 Sep 1998 02:53:47 EDT
From: RangerSF5@aol.com
To: n2cx@voicenet.com
Cc: qrp-1@Lehigh.EDU
Subject: [20503] Re: QRP SSB freq?
Message-ID: <142d81e.360354fb@aol.com>
Mime-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

In a message dated 98-09-18 22:03:56 EDT, you write:

<<

I checked Bob Hightower's page and he lists 14.285, however
W2DP, who certainly operates more SSB than I do, recommends 14.260.

>>

Thats where i'm at all the time with the MFJ rig....14.260
Good active spot. Don't know if it's a qrp freq. but who cares as everyone
always says WOW, you'r only running 10 Watts PEP?

Bob

WA2HQQ

Date: Sat, 19 Sep 1998 03:02:50 -0500
From: "Randy Jouett" <nop@swbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [20504] 10 Mtr AM Repeater
Message-ID: <012b01bde3a3\$e626f890\$210aa8c0@aldebran>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Ok. The time has arrived for a 10-mtr AM repeater via 220 remote link.
First of all, is there anyone already doing this? If not, can we do this in the
10-mtr AM section of the band? If not, is there enough spectrum available

above 29.6?? Also, how bad is the phase distortion on 10?

This would sure be a cheap way to put a lot of people on the air, especially with Maxon CB rig @ \$35 and Steve's conversion kit and such. The only addition would be xmit offset, the way I see it.

Have any old dust-collecting 220 stuff or CB Amps hanging around? I'd be glad to hack a repeater together if anyone is interested.

What you guys think?

73,

Randy AB5NI
nop@swbell.net

Date: Sat, 19 Sep 1998 06:34:14 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: rohre <rohre@arlut.utexas.edu>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [20505] Re: RF Losses
Message-ID: <Pine.GS0.3.96.980919061204.21092D-100000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Amen to Stuart's run down on cautions, limitations, and proper opportunities for adapting materials to new uses for both short and long term application. Well done.

Here are just 2 of many ways to increase the heat within a solenoid coil so that a simple current measurement becomes insufficient to gauge the material's usefulness.

1. Place the coil in a very low impedance circuit and have mechanical connections at both ends. The connections each have a finite resistance that results in some portion of the power in the circuit turning into heat. Since copper wire used in coils is a good thermal conductor, much of the heat may be transferred to the coil, adding to the heating effects on the coil form. Not all heating effects result from RF properties of the coil form. This form of heating is especially relevant to mobile antennas, especially when base loaded for one of the lower HF bands.

2. Put the coil in a parallel resonant circuit. The circulating current in the tank circuit can be many times the current fed to the circuit. Since coils have distributed capacity, they are also self-resonant at some frequency, and harmonics can yield circulating currents of their own (and yet be filtered out of the output). Circulating currents can exceed the recommended current for the wire size very quickly, even though the supplied current is well within recommendations for the wire size. This form of heating is relevant to traps. It is also relevant to those output filters on solid state rigs. Although the coil may visually look in the schematic like only a series element, it functions much more complexly, and can be analyzed with the shunt capacitors as one or more parallel tank circuits.

In analyzing the heat sources, do not focus on just one source, but think about all possible sources. Heat is not discriminating: it simply adds heating from all sources. Also, do not think that just because something gets "only a little bit warm to the touch" that all is well. As Stuart noted, materials change with time, and a little heating can speed the changes immensely with some materials. Some of the older and bulkier ceramics, like steatite, proved more immune (but none are perfectly immune) to changes with time and heat. If you cannot afford vacuum components, then air is the best. Almost all else is a compromise that has to be measured against the conditions present in a given application.

-73-

LB, W4RNL

Date: Sat, 19 Sep 1998 08:33:26 -0000
From: Pete Meier <pmeier@tir.com>
To: "QRP-L List" <qrp-l@lehigh.edu>
Subject: [20506] QRP FD Question
Message-ID: <199809191227.IAA04609@sun.tir.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

Is the operating time of FD the full 6 hours or 4 of the 6 hours?
Has it always been a full 6 hours?

Pete WK8S

Date: Sat, 19 Sep 1998 07:37:07 -0500 (CDT)
From: Paulette Quick <wb9vhf@globaldialog.com>
To: qrp-1@Lehigh.EDU
Subject: [20507] Send a card to Bruce, W6TOY
Message-ID: <3.0.16.19980919063009.099f3b18@globaldialog.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Bruce Muscolino, W6TOY went into the hospital on Sept. 4 for a hip replacement operation. He left the hospital around the beginning of this week but instead of going home he went to a rehabilitation facility.

I talked with his mother Thursday night and she said rehabilitation isn't going as fast as expected and that she doesn't know when he will get to come home. From the way she talked it sounded like Bruce is feeling down about this.

Well, qrpers, let's cheer up W6TOY. Please send a card to his home address, 2813 Village Ln., Silver Spring MD 20906. Including some chatty stuff about what you've been doing on the air wouldn't hurt either. (In case you lose this email, his address is on the callsign servers as well.)

It's been proven that a positive mental state facilitates the healing process so we can all help Bruce return home quickly and get back on the air.

Paulette Quick, WB9VHF
Madison WI
and the flock o' five
wb9vhf@globaldialog.com

Date: Sat, 19 Sep 1998 07:48:47 -0500
From: "Mike Martin" <mmartin@internetni.com>
To: <pornchai@daisy.bu.ac.th>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [20508] Re: QRP SSB freq?
Message-ID: <000a01bde3cb\$da9b02a0\$6ab264d1@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Speaking of 14.260 Mhz, I worked VE8TA on that frequency Thursday night

(2348 UTC) with my TS-430S set to 10 w PEP. VE8TA (Louis) said he was on Baffin Island.

QRP comes through again!

73's,

Mike KA9LYY

-----Original Message-----

From: Joe <HS2JFW> <pornchai@daisy.bu.ac.th>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: Friday, September 18, 1998 11:41 PM

Subject: Re: QRP SSB freq?

I saw in frequency information about QRP SSB frequency.

That locate on 14.285 MHz on 20M and 21.385 on MHz on 15M.

About 14.260 MHz around asia is the DX frequency. Most of BIG GUN often on this frequency. So, most of SSB QRP not very often call CQ cause those other

station don't need to reply to weak signal station as you know.

73 Joe

Pornchai Semjang ,Joe QRP-L #938

HS2JFW , N3YGP QRP-HS#1

Bangkok University

semjang@lily.bu.ac.th

pornchai@daisy.bu.ac.th

HomePage "http://www.qsl.net/~hs2jfw"

Callbook Thailand "http://hs2jfw.ml.org"

-----Original Message-----

From: Joe Everhart <n2cx@voicenet.com>

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>

Date: 19 2541 23:23

Subject: QRP SSB freq?

>OK all you QRP SSB ops...

>

>What is the conventional QRP SSB frequency on 20 meters?

>

>I checked Bob Hightower's page and he lists 14.285, however

>W2DP, who certainly operates more SSB than I do, recommends 14.260.

>

>What is the consensus? As previously announced, WQ2RP is gonna operate at the SJRA hamfest tomorrow and we wanna operate where

>somebody's gonna be listening.
>
>72/73,
>
>Joe E., N2CX
>
>from South Jersey y'all!
>
>

Date: Sat, 19 Sep 1998 09:26:31 -0400 (EDT)
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>
To: QRP-L List <qrp-l@lehigh.edu>, gqrp-l@blacksheep.org,
towertalk@contesting.com, antennas@qth.net
Subject: [20509] Vertical Dipoles and Ground Planes
Message-ID: <Pine.GS0.3.96.980919092140.24262A-100000@larry.cas.utk.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Discussions that have appeared from time-to-time about the advisability of having a local (1/4 wl) radial ground plane beneath antennas like the vertical dipole led me to wonder what some systematicew model might indicate. Such modeling, of course, does not automatically indicate reality, since a whole range of questions regarding the adequacy of NEC-2 and NEC-4 for dealing with ground planes at or just atop the ground are undergoing extensive analysis at present.

However, it seemed useful to at least get a picture of what the modeling outcomes would be. So I started phase 1 of a study and have placed the initial results at the site under the title above, with the item listed near the very bottom of the section of items on modeling.

I hope the information is useful to someone.

-73-

LB, W4RNL

L. B. Cebik, W4RNL	/\ /\ *	/ / /	(Off) (423) 974-7215
1434 High Mesa Drive	/ \/ \/\	----/\---	(Hm) (423) 938-6335
Knoxville, Tennessee	/\ \ \ \	/ / /	(FAX) (423) 974-3509

37938-4443 USA / \ \ \ \ || cebik@utk.edu
URL: http://web.utk.edu/~cebik/radio.html

Date: Sat, 19 Sep 1998 14:41:34 GMT
From: nhoop@centuryinter.net (N H)
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [20510] Mommy, what's a reflector?
Message-ID: <360ac26e.13241243@mail.ot.centuryinter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Yep; stupid question # 143:

I've been around for a while and have fiddled with computers since the 70's. but it wasn't until I got around the ham stuff here that I ran into the term "Reflector".

How come?

72 Nat KM5QU
Oxford AR

Date: Sat, 19 Sep 1998 10:55:18 -0400 (EDT)
From: Richard Brittingham <rbritt@visi.net>
To: RangerSF5@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20511] Re: QRP SSB freq?
Message-ID: <Pine.GS0.3.96.980919105457.23938A-100000@ankara.visi.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I thought 14.260 was IOTA in use?

Amateur Radio Operator as WD4AEF for 22 years
Now Vanity Call is W4MCD

Date: Sat, 19 Sep 1998 09:41:25 -0600 (MDT)
From: Paul Harden <pharden@aoc.nrao.edu>
To: qrp-1@lehigh.edu
Subject: [20512] Solar Stuff for QRP AFIELD
Message-ID: <Pine.SOL.3.91.980919085445.18748C-100000@zia>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Due to business travel and such, I've been kinda QRT this past week.

---> For QRP AFIELD ... GET ON THE AIR *EARLY* FOR BEST CONDITIONS.

The sun has been very quiet all week with only small C-class flares. We're at the minimum of the 28-day solar cycle, with flux levels currently in the 120's. Not bad, but not high enough to support propagation on the higher bands. 15M will likely not be open.

However, there has been a CORONAL HOLE that is dumping streams of charged particles towards the Earth that is causing disturbances to our magnetic field. Conditions are expected to be unsettled on Saturday, with the effects of the Coronal Hole expected to cause DISTURBED CONDITIONS by late saturday. Exactly when this will "hit" is not known, but does fall into the window of the last hour or two of QRP AFIELD. So the later period of the contest may experience a sudden onset of noisy, bursty-static conditions ... most pronounced on 40M.

My guess is this will be a 20M contest ... those limited to 40M only may find the second half of the contest with difficult conditions.

Solar/geomagnetic conditions are difficult to predict with any accuracy in terms of timing and the true "end result" effects ... so don't let this discourage you from operating ... it is provided to inform you of likely disturbed conditions later in the contest so you can plan your strategy accordingly. Secondly, when these charge particle arrive, it will cause disturbances in local areas, slowly propagating across our magnetic field, so the effects are not instantaneously global in nature (except in the higher latitudes ...

sorry Alaska!). The contest exchange is short, so even in disturbed conditions you'll get it across with a couple of repeats. Might take some work, but that in itself can be fun! So if a station keeps asking you for repeats, understand HE may be in far worse conditions than YOU.

> IIB. GEOPHYSICAL ACTIVITY FORECAST: THE GEOMAGNETIC FIELD IS
> EXPECTED TO REMAIN UNSETTLED TO ACTIVE. A LARGE EXTENSION OF THE
> NORTHERN CORONAL HOLE WILL MOVE INTO FAVORABLE POSITION FOR
> GEOEFFECTIVENESS BY LATE TOMORROW.

^^^^^^^^^^^^^^^^^^

This means the trajectory of the energetic electrons leaving the
Coronal Hole will sweep across the Earth.

> DISTURBED CONDITIONS ARE EXPECTED TO PERSIST THROUGH THE EARLY
> PART OF NEXT WEEK.

The stream of charged particles flows along the solar wind, forming
an "arc." The Earth will travel through this arc of particles over
the next couple of days, causing continued disturbances to our
magnetic field. These "slow moving" particles are those released from
the Coronal Hole over the past few days, NOT just from today.

> IV. PENTICTON 10.7 CM FLUX
> OBSERVED 18 SEP 123
> PREDICTED 19 SEP-21 SEP 125/130/130
> 90 DAY MEAN 18 SEP 127

Predicted for SATURDAY: 125 and starting to rise

> V. GEOMAGNETIC A INDICES
> OBSERVED AFR/AP 17 SEP 005/007
> ESTIMATED AFR/AP 18 SEP 017/010
> PREDICTED AFR/AP 19 SEP-21 SEP 015/015-015/015-015/020

Predicted for SATURDAY: 15 ... unsettled to active conditions

72 es GL, Paul NA5N

PS - A recent press release indicates that the SOHO satellite is
slowly coming back to life. The on-board batteries have been fully
recharged, the gas jetavators have been fired placing SOHO into
proper position and is being maintained by the automatic attitude
control system. An evaluation of the scientific instruments has
begun. Some "thawing" of the on-board gasses, piping, and mechanical
structures (now that it is positioned correctly) still needs to
occur before some of the systems and instruments can be activated
for testing.

Date: Sat, 19 Sep 1998 08:35:04 -0700 (PDT)
From: KC5TJA <kc5tja@axisinternet.com>
To: N H <nhoop@centuryinter.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20513] Re: Mommy, what's a reflector?
Message-ID: <Pine.LNX.3.96.980919083234.5176C-1000000@axisinternet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sat, 19 Sep 1998, N H wrote:

> I've been around for a while and have fiddled with computers since the
> 70's. but it wasn't until I got around the ham stuff here that I ran into
> the term "Reflector".
>
> How come?

Reflector is actually an archaic term for mailing list. It's name came
about because whatever message you sent to it was "reflected" onto
everyone else who was reading the list. Just as "accumulator" is an
archaic term for "register" in the CPU field.

I still think "Scatter propagation e-mail server" (SPES) would be more
appropriate term, but hey -- history is ubiqitous. <grin>

```
=====
      KC5TJA/6      |                               -| TEAM DOLPHIN |-
          DM13      |                               Samuel A. Falvo II
      QRP-L #1447   |                               http://www.dolphin.openprojects.net
      Oceanside, CA |.....
```

Date: Sat, 19 Sep 1998 08:43:59 -0700
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [20514] Quick HELP!
Message-ID: <3603D13F.A05FEB5D@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have blown it and deleted the info on the sprint today. Can anyone email the times etc or tell me where the rules are? Thanks. I got overzealous with the delete key.

--

73 de AC6KW <mailto:grudin@vdbbs.com>
Jeff Grudin, DVM Web Add: <http://www.vdbbs.com/~grudin>
Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

Date: Sat, 19 Sep 1998 11:51:31 -0400 (EDT)
From: Fran Flynn <fflynn@together.net>
To: qrp-l@lehigh.edu
Subject: [20515] suppressed carrier FM
Message-ID: <199809191551.LAA04975@sequoia.together.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

>> What do you get when you suppress the
>> carrier of FM -
>>

You get nothing!

As was aptly pointed out to me by someone on the list, no carrier equals no signal. The last post was mostly intended as sarcasm. I think some repeaters might benefit from having some of the users eliminate the carrier from thier FM signal.

If I really thought you could transmit FM with no carrier, I would have to send both my licenses back to the FCC, the GROL and my ham ticket.

KM1Z FN34

Date: Sat, 19 Sep 1998 08:54:59 -0700
From: Lee Hopper <leehop@uswest.net>
To: qrp-l@lehigh.edu
Subject: [20516] GHD Keys
Message-ID: <3603D3D2.B075257@pop.ptld.uswest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Group:

Have you visited the website for GHD Key?

<http://www2s.biglobe.ne.jp/~ghdkey/flame.htm>

"Has no electrical contact point, so you will feel so soft feeling."

-Lee

Date: Sat, 19 Sep 1998 08:57:26 -0700
From: Jeff Grudin <grudin@pacific.vdbs.com>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [20517] Got the Sprint info Thanks
Message-ID: <3603D465.B24B2196@vdbs.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Chris Cartwright was right on top of it and sent me the info.

Thanks Chris.

See you guys out there.

--

73 de AC6KW <<mailto:grudin@vdbs.com>>
Jeff Grudin, DVM Web Add: <http://www.vdbs.com/~grudin>

Ocean Animal Clinic / Cat Clinic of Santa Cruz - Santa Cruz, California
Norcal QRP #1292 QRP-L #16 ARS #351 AR Qrp #131

Date: Sat, 19 Sep 1998 09:26:18 -0700 (PDT)
From: David Feldman <dgf@netcom.com>
To: qrp-l@lehigh.edu
Subject: [20518] Re: suppressed carrier FM
Message-ID: <199809191626.JAA01069@netcom15.netcom.com>

>>> What do you get when you suppress the
>>> carrier of FM -
>>>
>
>You get nothing!
>
>As was aptly pointed out to me by someone on the list, no carrier equals no
>signal. The last post was mostly intended as sarcasm. I think some repeaters
>might benefit from having some of the users eliminate the carrier from thier
>FM signal.
>
>If I really thought you could transmit FM with no carrier, I would have to
>send both my licenses back to the FCC, the GROL and my ham ticket.
>
>KM1Z FN34

Maybe the original poster had a different intent? I have wondered myself about supressing the carrier of a FM signal, in the sense that when there is no modification, or the phase/frequency of the carrier is identical to the carrier in an unmodulated state, that the carrier would be supressed. When there was modulation, the carrier would re-appear. In this case, could a demodulator infer the original carrier frequency/phase and use that as a reference point in demodulation (that is, the demodulator would use it's own copy of the carrier only in the absence of the modulated carrier from the original sender?

Dave WB0GAZ

Date: Sat, 19 Sep 1998 10:30:31 -0600
From: "Peter Hardie" <hardie@shaw.wave.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20519] Re: suppressed carrier FM
Message-ID: <3603DC27.913BB1C2@shaw.wave.ca>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Chris Trask wrote:

>
> On Fri, 18 Sep 1998, Fran Flynn wrote:
>
> > >> What do you get when you suppress the
> > >> carrier of FM -
> > >>
>
> Absolutely no output.

Not true. When you filter out the carrier of an AM signal you are left with the two sidebands.
Filtering out the carrier of an FM signal would leave the, theoretically, infinite number of sidebands.

72 de Pete VE5VA
QRP-L #46

Date: Sat, 19 Sep 1998 09:59:36 +0000
From: Bob Hightower <ki7mn@dancris.com>
To: qrp-l@Lehigh.EDU
Subject: [20520] FS: Misc stuff
Message-ID: <199809191652.JAA24681@user2.dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have for sale the following items:

MFJ 207 Antenna analyzer, \$45.00 shipped

SLV (SD-20 pole) w/MMA 80 Meter coil, \$65.00 shipped.

RS DSP unit, \$35.00 shipped.

Please respond off the list. First come, first served.
Bob Hightower KI7MN <http://www.dancris.com/~ki7mn>

Date: Sat, 19 Sep 1998 11:56:03 -0500
From: "Randy Jouett" <nop@swbell.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [20521] Re: Am audio
Message-ID: <005801bde3ee\$63906150\$210aa8c0@aldebran>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>You pays your money and you takes your bandwidth...the
>perceived inferior quality of "communications quality"
>audio is the result of the narrow bandwidth filters
>used in filter SSB rigs. There is nothing preventing
>us from making SSB rigs of any audio bandwidth we choose,
>nor is there anything preventing us from using DSB.

True. However, bandwidth limitations due to band congestion has a lot to do with this, as we both know, Laura :^). It would be nice if we could use AM or FM exclusively, but I don't think that this is going to be a reality until we can figure out how to put out a digital AM or FM data packet that doesn't interfere with another signal. This can be done via enhanced FFT filter algorithms, phase shift, signal inversion(?...should help the FFT algos out a lot!), along with packetization (that's off the top of my head), but this technology would be extremely expensive at this point in time. Unfortunately, digital ham audio is going to have to be put back on the back burner for a time, in my every so humble, possibly inaccurate opinion :^).

>The latter is trivial to generate, simple to demodulate
>properly (e.g. squaring loop), and when demodulated properly has power advantages over SSB. If you want SSB,
>either design all-pass or polyphase networks to cover
>whatever bandwidth you want, or do it properly with DSP,
>with an adaptive system that measures its own amplitude
>and phase imbalances, and then configures itself appropriately. Commercial and military direct conversion
>SSB transeivers do this.
>
>Nothing to it...

Bandwidth, my dear :^)

>Or we could junk all this analogue stuff and transmit

>digital voice - everything from robotic-sounding but useful
>signals that could fit in HF bandwidths and be detected
>at really silly signal-to-noise ratios, up to CD quality
>sound.

CD quality. See my previous remarks on bandwidth.
44khz sampling rates at 16 bits on the ham bands would be
too cool! However, at this point in time and with current technology,
it would be too expensive...and did I mention bandwidth? :^)

Randy AB5NI
nop@swbell.net

Date: Sat, 19 Sep 1998 11:57:13 -0600
From: "Peter Hardie" <hardie@shaw.wave.ca>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [20522] Re: Am audio
Message-ID: <3603F079.4036103C@shaw.wave.ca>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

laura halliday wrote:

>
> You pays your money and you takes your bandwidth...the
> perceived inferior quality of "communications quality"
> audio is the result of the narrow bandwidth filters
> used in filter SSB rigs.

Yes. But I think there's a more important thing at work too. The absence
of a carrier makes it much harder to correctly tune in a sideband signal
so that the voice sounds natural. This adds to the "perceived inferior
quality" of SSB. I've watched many hams operating SSB (e.g. at field
day) and they have the received signal tuned way too high or low.

72 (87? :-) de Pete VE5VA
QRP-L #46

Date: Sat, 19 Sep 1998 11:05:47 -0700
From: "Keith Martin" <martins@ccosmo.net>
To: qrp-l@Lehigh.EDU
Subject: [20523] Need help with tuning new rig.
Message-ID: <199809191105470530.006C1D86@cosmoaccess.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

I have a new hf rig without the manual. What is the correct way to tune a= Kenwood TS-520S. Also, does anyone know its lowest (and highest) output?= Can I get it down to QRP power levels???

Thanks,

Keith

Date: Sat, 19 Sep 1998 14:34:51 -0400
From: kf2ew@juno.com (David M Kopacki, Sr.)
To: paule@sfu.ca
Cc: qrp-l@Lehigh.EDU
Subject: [20524] Re: Teaching theory to kids??
Message-ID: <19980919.144030.4390.0.kf2ew@juno.com>

Paul,

I hear ya. My five year old daughter passed her novice morse code test in April and she will try the written for the first time on national VE day this Saturday.

To your point, teaching theory to young kids is, at best, difficult. I have gotten through the book and today she took her third practice test from NuTest. She got 27 right! I'm trying very hard to teach her along the way and not just to recognize the questions. (She still has not recognized that the answers are given in the margins of the pages next to each question!)

There is a couple of things that I'll throw out. EVERY time you sit down with her give yourself a patience peptalk first! They're just kids and their focus and attention is sometimes short. Second, whenever possible, use examples and analogies that they will understand. Show her your station. Cut up a piece of each different type of feed line that the book talks about. Also, you don't have to read the entire book. If

she can, that's great. But if she can't, go through every question first and highlight those areas in the text. You still cover the material but reduce a lot of the extra stuff and she can use it later to review (the highlighted stuff).

Good luck, not just to your daughter but TO YOU!

Mike Kopacki, KF2EW

In the end, it will still be difficult.

On Sun, 13 Sep 1998 20:05:47 -0700 (PDT) Paul Erickson <paule@sfu.ca> writes:

>My 11 year old daughter has expressed an interest in getting her
>license. She is working her way through Super Morse, but I was
>wondering if anyone could recommend some materials for teaching
>theory to kids her age.

>

>cheers, Paul VE7CQK/email: paule@fraser.sfu.ca

>

>

>

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Date: Sat, 19 Sep 1998 12:16:16 -0700 (PDT)
From: Stephen Lee <slee@u.washington.edu>
To: Tom Cooper <cooper@gmpvt.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [20525] Re: BC-906 freq meter, long
Message-ID: <Pine.A41.3.95b.980919102120.37488A-100000@homer27.u.washington.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

A friend of mine was cleaning out his grandad's barn when he came across an OD green wooden box containing some old electronics. Paperwork found in the box indicated the stuff was packed away in the mid 40's. So we emptied the box and turned it upside down to dump out the packing material. On the bottom of the wooden box we discovered his grandad's APO address. Evidently, just after WWII ended grandad had shipped this box of electronics home from Europe. There it sat in a dry spot in the barn until grandad passed away.

OK, that's the history of what's to follow. One of the items found in that OD green box was a BC-906E frequency meter. The nomenclature

tag say: Signal Corps US Army
 Frequency Meter BC-906-E
 Serial No 217 Order Number 2502-MPD-44
 Espey Mfg Co., Inc

My friend thought I'd be interested in buying this fine specimen and was somewhat dissatisfied when I said no. I've got it in my possession today so if anyone is interested in it let me know. It's missing the removable/stowable/telescopic antenna and of course grandad removed the batteries prior to shipping way back when. There is a headphone jack but no headphones. Inside is nearly pristine. There's a scratch on what must be a stainless steel vernier that is outside the numbered area. I suspect the label for the ON/OFF switch has a thin film of rust on it as the background looks brown while the background on the HI/LO switch looks natural (dark) grey metal. The meter is as new, measures DC microamperes from 0 through 500. Since the label beneath the meter reads "tune to meter dip," I took it that this BC-906-E was some form of early early grid dip meter. The schematic is still there on the inside of the front cover. Here's the double whammy: My friend thinks this is a valuable antique while myself, I just don't want to see it get disassembled. Because grandad kept it intact I think it had a special meaning to him.

73 all....de AB7HI, Stephen Lee, Federal Way, WA

On Fri, 18 Sep 1998, Tom Cooper wrote:

> Hi! You may have one (or more) of these kicking around, waiting
> for adoption. Any model, any condx, any where. Thanks and 72,
> Tom W1EAT cooper@gmpvt.com

Date: Sat, 19 Sep 1998 19:34:50 GMT
From: nhoop@centuryinter.net (N H)
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [20526] Re: Mommy, what's a reflector?
Message-ID: <360f0703.30800492@mail.ot.centuryinter.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

>Reflector is actually an archaic term for....

Sort of like me.....

sigh

72 Nat KM5QU
Oxford AR

Date: Sat, 19 Sep 1998 12:35:37 -0700 (PDT)
From: David Feldman <dgf@netcom.com>
To: qrp-1@Lehigh.EDU
Subject: [20527] Re: B&W's apartment/travel antenna (?)
Message-ID: <199809191935.MAA16491@netcom3.netcom.com>

>Gang,

>

>At B&W's web page you'll find a description and drawings of
>their AP-10 "Window Antenna." It's essentially a
>telescoping whip with base-loaded coils, counterpoise wire
>and window-mounting bracket. It covers 40 thru 2 meters --
>but, no WARC bands. Price is \$69.95 (US). I have never
>used one of these or heard of anyone using one. I'd be
>interested in comments from anyone who has. Could be
>useful for those needing a "hotel antenna" or a stealth
>for their apartment :-)

>

>URL: <http://www.bwantennas.com/AP10INS.HTM>

>

>Thanks in advance,

>

>72 - Conrad Weiss - NN6CW

I obtained one of these recently, used. I haven't tried it yet, altho it looks well built except for one problem - the 40M coil is very fragile as it uses a 32 turns/inch coil stock. The other coils (20, 15, 11, 10) are more robust, but keeping the 40M coil alive isn't easy (mine was DOA).

Putting the antenna on WARC bands should be very easy for 17 and 12 meters, just short out a few turns of the 20 and 15 meter coils respectively and fine a new length for the counterpoise wire

(it's just a length of hookup wire which you unroll out to a desired length).

I hope to try it soon.

I was suprised to find b&w even existed anymore - I thought they were long gone... Maybe I can get a chunk of coil stock and redo the 40M coil.

73 Dave WB0GAZ dgf@netcom.com

Date: Sat, 19 Sep 1998 13:31:28 +0000
From: Bob Hightower <ki7mn@dancris.com>
To: qrp-l@lehigh.edu
Subject: [20528] Re: FS: Misc stuff
Message-ID: <4.0.2.19980919133018.00c843c0@mail.dancris.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The SLV w/80M MMA coil has been sold. Still have the RS DSP and the MFJ 207 Analyzer.

Bob Hightower KI7MN <http://www.dancris.com/~ki7mn>

Date: Sat, 19 Sep 1998 13:39:31 -0700
From: k6hcj@juno.com (Marv Fagenson)
To: qrp-l@Lehigh.EDU
Subject: [20529] GOLDMINE FORTHCOMING:
Message-ID: <19980919.133932.3694.0.k6hcj@juno.com>

I usually am silent here but I found a book which could be valuable to some of us. Barnes and Noble (booksellers) has Oscilloscopes: Selecting and Restoring a Classic. It is written by Stan, W7NI.

If any of us are planning to buy a used Tektronix scope, we would be well served by spending \$20 to explore the nuances of All models of Tek thru 1991-92 or so. The author talks abt hw to select, service, repair and use Tek scopes. It is written in layman terms so everybody will glean something from this publication. In the appendix, our friend Deane Kidd is referenced as the one to go to if we need paperwork on Tek scopes. Hope this helps. BTW I finally got my 38S and Rainbow finished finished finished. Took only a year but they look great and work fb.

72,
Marv Fagenson
k6hcj@Juno.com

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Date: Sat, 19 Sep 1998 13:56:42 -0700 (MST)
From: Joe Gervais <vole@primenet.com>
To: qrp-l@Lehigh.EDU
Subject: [20530] QRP Afield kickin' along...
Message-ID: <199809192056.NAA24518@usr05.primenet.com>

Howdy Folks,

Taking a short break from 20m QRP Afield. Just worked
ol' Dan N4ROA in VA (from sun-baked AZ) at around 2100Z,
so the RF's gettin' somewhere. :) TX and CQ are coming
in well. I do seem to be "hearing" better than I'm getting
out with my Sierra though....

Anyway, gotta arrange some office equipment, then I'll
get back on the air. Thanks to all for putting up with
degraded fist.

Anyone found life on 10/15m?

Cheers de AB7TT,

-Joe, vole@primenet.com, AZ ScQRPions (Phoenix)

"If it ain't fun, you ain't doin' it right!" -The AZ ScQRPions

End of QRP-L Digest 1219

